

FIG. 2



## FIG. 3A

	KEDGRLLASKC. VTDECTFKEILLPNNYNTYRSRKY. SSKGKLYGSPF. FTDECTFKEILLPNNYNAYESYKY. NSKGRLYATPS. FQEECKFRETLLPNNYNAYESDLY. SKKGKLHASAK. FTDDCKFRETLLPNNYNAYESDLY. SKKGKLYGKPDGTSKECVFIEKVLENNYTALMSAKY. NKKGKLIAKSNGKGKDCVFTEIVLENNYTALQNAKY. NKRGKLIGKPSGKSKDCVFTEIVLENNYTALQNAKY. SADGKIYGLIQYSEEDCTFREEMDCLGYNQYRSEKH. RPDGALYGSLHFDPEACSFRELLEDGYNVYQSEAH. DFRGNIFGSHYFDPENCRFQHQTLENGYDVYHSPQYH
	R SALFVAM NSKGRLYATPS.FQEECKFRETLLPNNYNAYESDLY F SNKFLAM SKKGKLHASAK.FTDDCKFRERFQENSYNTYASAIHRT E TEFYLCM NRKGKLVGKPDGTSKECVFIEKVLENNYTALMSAKY
	CANRYLAM KEDGRLLASKC. VTDECFFFERLESN NYN TYRSRKY ASRFF VAM SSKGKLYGSPF. FTDECTFKEILLPN NYN AYESYKY
	ETGQYLAM DTDGLLYGSQT.PNEECLFLERLEENHYNTYISKKH
<b>44</b>	E SEFYLAM NKEGKLYAKKE. CNEDCNFKELILEN HYN TYASAK F SGRYLAM NKRGRLYASEH. YSAECEFVERIHELGY N TYASRL
ï	N S N YY L A M N K K G K L Y G S K E . F N N D C K L K E R I E E N G Y N T Y A S F N
	DSGLYLGMNERGELYGSKK.LTRECVFREQFEENWYNTYASTL
ĭ	LGHYMAM NAEGLLYSSPH. FTAECRFKECVFENYYVLYASAL
16	Q TKLYLAM NSEGYLYTSEL. FTPECKFKESVFENYYVTYSSMI
16	KTGLYIAM NGEGYLYPSEL, FTPECKFKESVFENYYVIYSSML
16	KASLY VAM NGEGYLY SSDV. FTPECKFKESVFENYYVIYSSTL

## FIG. 3B

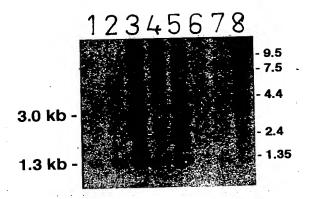
0	206	0	0	δ	σ	0	σ	$\infty$	വ		$\circ$	0	$\sim$	$\infty$	œ	$\infty$			_		
Q QES GRAWFLGLNKEGQIMKGNRVKKTKPSSHFVPKPIEVCM	RQQESGRAWFLGLNKEGQAMKGNRVKKTKPAAH FLPKPLEVAMY	Q Q Q S G R G W Y L G L N K E G E I M K G N H V K K N K P A A H F L P K P L K V A M	Q RRS G R A WYLG L D K E G Q V M K G N R V K K T K A A A H F L P K L L E V A M	H SDS ER Q Y YVALNKDGSPREGY RTKRHQKFTH FLPRPVDPSK	H V D T G R R Y Y V A L N K D G T P R E G T R T K R H Q K F T H F L P R P V D P D K	HNGR Q MYVALNGRGAPRRGQ., KTRRKNTSAH FLPMVVHS~~	THN GGE MFVALN QKGIP VRGK KTKKE QKTAH FLPMAIT~~~	. Q PSA ERL WYVS VNGKGRPRRGF., KTRRTQKSSL FLPRVLDHRD	EKNWFVGLKKNGSCKRGPRTHYGQKAIL FLPLPVSSD~	S W Y V A L K R T G Q Y K L G S K T G P G Q K A I L F L P M S A	G MFIALS KNGKTKKGNRVS PTMKVTH FLPRL~~~~~	OGTYIALSKYGRVKRGSKVSPIMTVTHFLPRI~~~~~	E WYVALNKRGKAKRGCSPRVKPQHISTH FLPRFKQSEQ	G WYVGFTKKGRPRKGP KTRENQQDVH FMKRYPKGQP	G WYMAFTRKGRPRKGSKTRQHQREVH FMKRLPRGHH	G W F M A F T R Q G R P R Q A S R S R Q N Q R E A H F I K R L Y Q G Q L	LHIIFIQAK.PREQLQDQKPSN FIPVFHRSFF	LPVSLSSAK. QRQLY KNRGFLPLSH FLPMLPMVPE	LPLHLPGNKSPHRDPAPR.GPAR FLPLPGLPPA	A KRAF LP GMNPPPYS OF LSRR NEIPLIH FNTPIPRRH	
FGF12	FGF14	FGF13	FGF11	FGF16	FGF9	FGF10	FGF7	FGF3	FGF1	FGF2	FGF4	FGF6	FGF5	FGF18	FGF8	FGF17	FGF15	FGF19	FGF21	FGF23	

## FIG. 30

FIG.4A



FIG. 4B



### Figure 5A

CGGCAAAAAGGAGGAATCCAGTCTAGGATCCTCACACCAGCTACTTGC AAGGGAGAAGGCAGTAAGGCCTGGGCCAGGAGAGTCCCGACA GGAGTGTCAGGTTTCAATCTCAGCACCAGCCACTCAGAGCAGGGCA@GA TGTTGGGGGCCCGCCTCAGGCTCTGGGTCTGTGCCTTGTGCAGCGTCTG CAGCATGAGCGTCCTCAGAGCCTATCCCAATGCCTCCCCACTGCTCGGC TCCAGCTGGGGTGGCCTGATCCACCTGTACACAGCCACAGCCAGGAACA GCTACCACCTGCAGATCCACAAGAATGGCCATGTGGATGGCGCACCCCA TCAGACCATCTACAGTGCCCTGATGATCAGATCAGAGGATGCTGGCTTT GTGGTGATTACAGGTGTGATGAGCAGAAGATACCTCTGCATGGATTTCA GAGGCAACATTTTTGGATCACACTATTTCGACCCGGAGAACTGCAGGTT CCAACACCAGACGCTGGAAAACGGGTACGACGTCTACCACTCTCCTCAG TATCACTTCCTGGTCAGTCTGGGCCGGGCGAAGAGAGCCTTCCTGCCAG GCATGAACCCACCCCGTACTCCCAGTTCCTGTCCCGGAGGAACGAGAT CCCCTAATTCACTTCAACACCCCCATACCACGGCGCACACCCGGAGC GCCGAGGACTCGGAGCGGGACCCCCTGAACGTGCTGAAGCCCCGGG CCCGGATGACCCCGGCCCCGGCCTCCTGTTCACAGGAGCTCCCGAGCGC CGAGGACAACAGCCCGATGGCCAGTGACCCATTAGGGGTGGTCAGGGGC GGTCGAGTGAACACGCACGCTGGGGGAACGGCCCGGAAGGCTGCCGCC CCTTCGCCAAGTTCATCTAGGGTCGCTGGAAGGGCACCCTCTTTAACCC ATCCCTCAGCAAACGCAGCTCTTCCCAAGGACCAGGTCCCTTGACGTTC CGAGGATGGGAAAGGTGACAGGGGCATGTATGGAATTTGCTGCTTCTCT GGGGTCCCTTCCACAGGAGGTCCTGTGAGAACCAACCTTTGAGGCCCAA GTCATGGGGTTTCACCGCCTTCCTCACTCCATATAGAACACCTTTCCCA ATAGGAAACCCCAACAGGTAAACTAGAAATTTCCCCTTCATGAAGGTAG AGAGAAGGGGTCTCTCCCAACATATTTCTCTTTCCTTGTGCCTCTCCTCT GCAGTGGGTTCCTGAGCTCAAGACTTTGAAGGTGTAGGGAAGAGGAAAT CGGAGATCCCAGAAGCTTCTCCACTGCCCTATGCATTTATGTTAGATGC CCCGATCCCACTGGCATTTGAGTGTGCAAACCTTGACATTAACAGCTGA ATGGGGCAAGTTGATGAAAACACTACTTTCAAGCCTTCGTTCTTCCTTG AGCATCTCTGGGGAAGAGCTGTCAAAAGACTGGTGGTAGGCTGGTGAAA ACTTGACAGCTAGACTTGATGCTTGCTGAAATGAGGCAGGAATCATAAT AGAAAACTCAGCCTCCCTACAGGGTGAGCACCTTCTGTCTCGCT

MLGARLRLWVCALCSVCSMSVLRAYPNASPLLGSSWGGLIHLYTATARN SYHLQIHKNGHVDGAPHQTIYSALMIRSEDAGFVVITGVMSRRYLCMDF RGNIFGSHYFDPENCRFQHQTLENGYDVYHSPQYHFLVSLGRAKRAFLP GMNPPPYSQFLSRRNEIPLIHFNTPIPRRHTRSAEDDSERDPLNVLKPR ARMTPAPASCSQELPSAEDNSPMASDPLGVVRGGRVNTHAGGTGPEGCR PFAKFI

### **Figure 6A** 10/19

AGCCTGTCTGGGAGTGTCAGATTTCAAACTCAGCATTAGCCACTCAGTG CTGTGCAATGCTAGGGACCTGCCTTAGACTCCTGGTGGGCGTGCTCTGC ACTGTCTGCAGCTTGGGCACTGCTAGAGCCTATCCGGACACTTCCCCAT TGCTTGGCTCCAACTGGGGAAGCCTGACCCACCTGTACACGGCTACAGC CAGGACCAGCTATCACCTACAGATCCATAGGGATGGTCATGTAGATGGC ACCCCCATCAGACCATCTACAGTGCCCTGATGATTACATCAGAGGACG CCGGCTCTGTGGTGATAACAGGAGCCATGACTCGAAGGTTCCTTTGTAT GGATCTCCACGGCAACATTTTTGGATCGCTTCACTTCAGCCCAGAGAAT TGCAAGTTCCGCCAGTGGACGCTGGAGAATGGCTATGACGTCTACTTGT CGCAGAAGCATCACTACCTGGTGAGCCTGGGCCGCCCAAGCGCATCTT CCAGCCGGGCACCAACCCGCCGCCCTTCTCCCAGTTCCTGGCTCGCAGG AACGAGGTCCCGCTGCTGCATTTCTACACTGTTCGCCCACGGCGCCACA CGCGCAGCGCCGAGGACCCACCGGAGCGCGACCCACTGAACGTGCTCAA GCCGCGCCCCCCCCCCCCCTGTGCCTGTATCCTGCTCTCGCGAGCTG CCGAGCGCAGAGGAAGGTGGCCCCGCAGCCAGCGATCCTCTGGGGGTGC TGCGCAGAGGCCGTGGAGATGCTCGCGGGGGGCGCGGGAGGCGCGGATAG GTGTCGCCCCTTTCCCAGGTTCGTCTAGGTCCCCAGGCCAGGCTGCGTC ACCTCGAGGATGTCTGCTTCTCTCCCTTTCCCTATGGGCCTGAGAGTCAC CTGCGAGGTTCCAGCCAGGCACCGCTATTCAGAATTAAGAGCCAACGGT GGGAGGCTGGAGAGGTGGCGCAGACAGTTCTCAGCACCCACAAATACCT CACACACACACACATACATGTAATTTTAAATGTTAATCTGATTTAAA GACCCCAACAGGTAAACTAGACACGAAGCTCTTTTTATTTTATTTTACT AACAGGTAAACCAGACACTTGGCCTTTATTAGCCGGGTCTCTTGCCTAG CATTTTAATCGATCAGTTAGCACGAGGAAAGAGTTCACGCCTTGAACAC AGGGAAGAGGCCATCTCTGCAGCTTCTAGTTACTATTCTGGGATTCACG GGTGTTTGAGTTTGAGCACCTTGACCTTAATGTCTTCACTAGGCAAGTC GAAGAAGACGCGCATTTCTTCTCTTTTGGGAAGAGCTTTGGATTGGCGG GAGGCTGACAAGGACACCTAAACCGAACACATTTCAGAGTTCAGCCTCC TTGAATTTGCCCTGGCTCAGCAAAGTCTACCTTGCTAGGG



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MLGTCLRLLVGVLCTVCSLGTARAYPDTSPLLGSNWGSLTHLYTATART SYHLQIHRDGHVDGTPHQTIYSALMITSEDAGSVVITGAMTRRFLCMDL HGNIFGSLHFSPENCKFRQWTLENGYDVYLSQKHHYLVSLGRAKRIFQP GTNPPPFSQFLARRNEVPLLHFYTVRPRRHTRSAEDPPERDPLNVLKPR PRATPVPVSCSRELPSAEEGGPAASDPLGVLRRGRGDARGGAGGADRCR PFPRFV

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FIG. 7A
FIG. 7B

-+
1 2 3
--27kDa
--1.1 kb

FIG.7C

OK-EOOS-7 293

1 2 3 4 5 6

- 32kDa

- 12kDa

13/19 FIG.8A

12345678910
-3 kb
-1.3 kb

FIG.8B

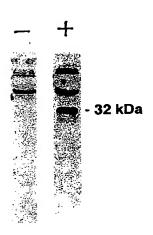


Figure 9

# , PREDICTED SIGNAL SEQUENCE

MLGARLRLWVCALCSVCSMSVLRAYPNASPLLGSSWGGLIHLYTATARNSY

HLQIHKNGHVDGAPHQTIYSALMIRSEDAGFVVITGVMSRRYLCMDFRGNI

FGSHYFDPENCRFQHQTLENGYDVYHSPQYHFLVSLGRAKRAFLPGMNPPP PREDICTED PROTEASE CLEAVAGE SITE

YSQFLSRRNEIPLIHFNTPIPRRHTRSAEDDSERDPLNVLKPRARMTPA 176 179

PASCSQELPSAEDNSPMASDPLGVVRGGRVNTHAGGTGPEGCRPFAKFI

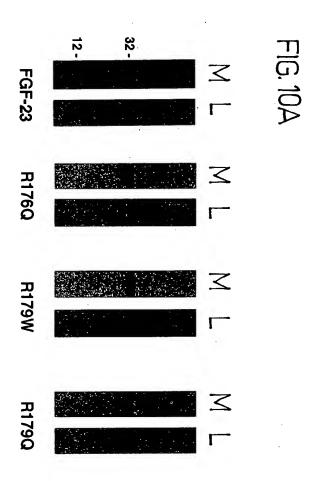


Figure 10B

PIPR**R**HT**K**SAEDD 176 179

PIPR**Q**HT**R**SAEDD 176 179

PIPR**R**HT**W**SAEDD 176 179

FIG.11A

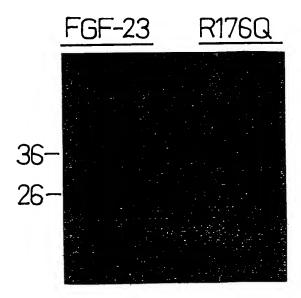
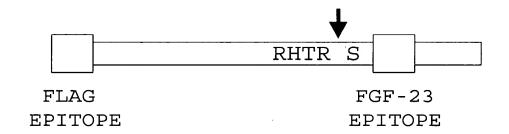
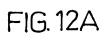


FIG. 11B



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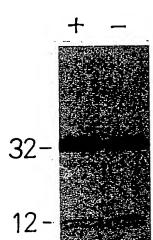


FIG.12B



FIG. 13

